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PATENT

APPLICATION 10/748,958

ATTORNEY DOCKET 2003-0010 (1014-052)

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method, comprising:
 - receiving, at a subscriber interface line card, an analog signal from a POTS subscriber loop circuit;
 - quantizing the analog signal into a plurality of digital samples;
 - encoding, via high-quality audio codec instructions running on a digital signal processor installed on the subscriber interface line card, the plurality of digital samples, the digital signal processor adapted to switch automatically between one or more high quality audio codecs and a POTS codec depending on:
 - capabilities of customer premises equipment at either end of a call comprising the analog signal; and
 - capabilities of a network via which the plurality of digital samples are transmitted; and
 - converting, via conversion instructions running on the digital signal processor, the encoded plurality of digital samples into a plurality of VoATM packets.
2. (Original) The method of claim 1, wherein the high-quality audio codec instructions are compatible with G.722.
3. (Original) The method of claim 1, wherein the high-quality audio codec instructions are compatible with ITU G series codecs.
4. (Original) The method of claim 1, wherein the high-quality audio codec instructions are compatible with Dolby Digital AC-3.
5. (Original) The method of claim 1, wherein the high-quality audio codec instructions are

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compatible with DTS.

6. (Original) The method of claim 1, wherein said encoding encodes multiple channel audio.
7. (Original) The method of claim 1, further comprising:
automatically substituting PCM codec instructions for the high-quality audio
codec instructions when a far-end CPE does not have high-quality audio codec capability.
8. (Original) The method of claim 1, further comprising:
automatically substituting alternative high-quality audio codec instructions for the
high-quality audio codec instructions.
9. (Original) The method of claim 1, further comprising:
automatically substituting alternative high-quality audio codec instructions for the
high-quality audio codec instructions based on a capability of a far-end CPE.
10. (Original) The method of claim 1, further comprising:
automatically substituting alternative high-quality audio codec instructions for the
high-quality audio codec instructions based on a capability of a far-end CPE's subscriber
interface line card.
11. (Original) The method of claim 1, further comprising:
automatically substituting alternative high-quality audio codec instructions for the
high-quality audio codec instructions based on a capability of a network coupled to the
subscriber interface line card.
12. (Original) The method of claim 1, further comprising:

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automatically substituting POTS audio codec instructions for the high-quality audio codec instructions.

13. (Currently Amended) The method of claim 1, further comprising:
automatically substituting POTS audio codec instructions for the high-quality audio codec instructions based on a capability of a a far-end CPE or subscriber interface line card.
14. (Original) The method of claim 1, further comprising:
signaling between the subscriber interface line card and a far-end subscriber interface line card.
15. (Original) The method of claim 1, further comprising:
signaling between the subscriber interface line card and a far-end CPE.
16. (Original) The method of claim 1, further comprising:
obtaining a capability of a far-end subscriber interface line card or CPE.
17. (Original) The method of claim 1, further comprising:
providing a capability of the subscriber interface line card to a far-end subscriber interface line card or CPE.
18. (Original) The method of claim 1, further comprising:
exchanging capability information with a far-end subscriber interface line card or CPE.
19. (Currently Amended) A machine-readable medium storing instructions for activities

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comprising:

receiving, at a subscriber interface line card, an analog signal from a POTS subscriber loop circuit;

quantizing the analog signal into a plurality of digital samples;

encoding, via high-quality audio codec instructions running on a digital signal processor installed on the subscriber interface line card, the plurality of digital samples, the digital signal processor adapted to switch automatically between one or more high quality audio codecs and a POTS codec depending on:

capabilities of customer premises equipment at either end of a call comprising the analog signal; and

capabilities of a network via which the plurality of digital samples are transmitted; and

converting, via conversion instructions running on the digital signal processor, the encoded plurality of digital samples into a plurality of VoATM packets.

20. (Currently Amended) A system, comprising:

a POTS subscriber interface line card adapted to receive an analog signal from a POTS subscriber loop circuit and quantize the analog signal into a plurality of digital samples;

high-quality audio codec installed on the subscriber interface line card, adapted to run on a digital signal processor coupled to the POTS subscriber interface line card, and adapted to encode the the plurality of digital samples, the digital signal processor adapted to switch automatically between one or more high quality audio codecs and a POTS codec depending on:

capabilities of customer premises equipment at either end of a call comprising the analog signal; and

capabilities of a network via which the plurality of digital samples are

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~~transmitted; and~~

a converter installed on the subscriber interface line card and adapted to convert the encoded plurality of digital samples into a plurality of VoATM packets.